

1 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

2 REGION III

3
4 CROSSLEY FARM SUPERFUND SITE
5 PROPOSED REMEDIAL ACTION PLAN OU-16 PUBLIC MEETING
7 AT THE WASHINGTON ELEMENTARY SCHOOL
8 1406 ROUTE 100, BARTO, PENNSYLVANIA
9 WEDNESDAY, MARCH 5, 1997, 7:00 P.M.10
11 LARRY BROWN COMMUNITY INVOLVEMENT COORDINATOR
12 U.S. EPA, REGION III
13 ROY SHROCK REMEDIAL PROJECT MANAGER
14 U.S. EPA, REGION III
15 KEVIN KILMARTEN PROJECT MANAGER
16 HALLIBURTON NUS CORPORATION

17 ALSO PRESENT:

18 BERNICE PASQUINI HYDROGEOLOGIST
19 U.S. EPA, REGION III
20 NANCY RIOS JAFOLLA TOXICOLOGIST
21 U.S. EPA, REGION III
22 JACK KELLY AGENCY FOR TOXIC SUBSTANCES AND
23 DISEASE REGISTRY (ATSDR)24
25 MONICK VIDEO & COURT REPORTERS
d.b.a. MONICK COURT REPORTERS, INC.
406 Augusta Drive, E.
Sinking Spring, PA 19608
Phone: 610/927-1310
Fax: 610/927-1311

Reported by: Merriann Hughes

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

INDEX

INTRODUCTION PAGE 3
EXPLANATION OF STUDIES PAGE 4
SUMMARY OF INVESTIGATION PAGE 7
PROPOSED REMEDIAL ACTION PLAN PAGE 12
QUESTION AND ANSWER SESSION PAGE 14
CLOSING STATEMENTS PAGE 68

1 MR. BROWN: Good evening, my name is Larry Brown,
2 and I am the Community Involvement Coordinator from the
3 Environmental Protection Agency. This evening I'd like to
4 welcome you here, first of all, and thank you for coming
5 out. This meeting is for the Proposed Remedial Action Plan
6 for the cleanup of Crossley Farm, and we'll get into that.
7 But before we do, I just wanted to go through a few
8 administrative notes for you.

9 First of all, if you didn't sign in, on your way
10 out, could you please sign in. We use these sign-in sheets
11 to develop mailing lists so that we make sure that we get
12 information out to you in a timely manner. Also, if you
13 didn't get a copy of the facts sheets that went out, I
14 think, last week, we have some more there. We also have
15 copies of the Proposed Remedial Action Plan on the table.

16 Now, there is a stenographer here this evening, and
17 this meeting will be recorded. The notes will go into the
18 two repositories. One is at the Hereford Township
19 Building, and the other one is at the Washington Township
20 Building. So that will go in the record, the
21 administrative record. Everything that goes on about the
22 site, there are two administrative records. So if you
23 would like to find out more, you're welcome to go to either
24 one.

25 So, again, I'd like to thank you for coming. As

1 you have questions, we are going to ask you to state your
2 name so we can get it in the record. It's not so we can
3 come back to find out who you are or anything, but in case
4 you do have a question that we can't answer here or
5 anything like that, it does help us.

6 So at this time, I'd like to turn it over to Roy
7 Schrock. He's the Remedial Project Manager for this site.

8 MR. SCHROCK: Again, my name is Roy Schrock. I'm
9 the Remedial Project Manager for this Site.

10 CITIZEN: Could you turn up the mike?

11 MR. SCHROCK: It's not working? Does that help a
12 little bit?

13 Again, my name is Roy Schrock. I'm the Remedial
14 Project Manager for this site. What we're doing currently,
15 is beginning a Remedial Investigation, which means we're
16 looking at all the soil, the ground water, the streams, the
17 sediments, and trying to figure out where contamination
18 exists at this site and what we can do about it.

19 The most recent activity started-- and basically
20 most of you are probably aware of the residential well
21 sampling that we did back in November and December of
22 1995. We went around to about a 104 homes, or a 104 homes
23 and springs in the area along Huffs Church, Dale Road,
24 Forgedale Road, and Dairy Lane. Now, there may be a few
25 other homes that we had checked or springs that we had

1 looked at, but we got the results back from the December
2 1995 sampling, and we mailed out some copies of those to
3 all the residents from which we took samples back in June
4 of 1996.

5 So that's probably the most important activity
6 that's happened since we began the study. And the thing
7 that's unusual about this particular Superfund site, is
8 that the ground water is actually traveling in the
9 fractured bedrock, and what it means to you homeowners is
10 that you may have a home with a well, let's say, a hundred
11 feet deep. Your neighbor may have a well at 60 feet deep.
12 And one well might be contaminated, and the next one might
13 not. There is no clear pattern yet based on just where you
14 live on Dale Road as to if you're not, your well is
15 contaminated. So that's why we decided we had to check all
16 the homes in the area and to begin to try and get a picture
17 of what it is we're dealing with in terms of contaminants
18 and individual homeowners.

19 The next part of this study, which we're just about
20 to begin, is going to be looking at the entire area,
21 looking at the regional ground water patterns, again, going
22 back to the surface water and streams, sediments, and the
23 springs, in particular, are really critical to our entire
24 investigation.

25 Now, one of the things I wanted to just mention to

1 you is that we did bring some other EPA people here and
2 some of the people who are working with EPA to do the
3 studies at this site. Our hydrogeologist Bernice Pasquini
4 is here, our toxicologist Nancy Rios Jafolla is here, and a
5 representative from the-- I call them the ATSDR what is
6 that?

7 MR. KELLY: The Agency for Toxic Substances and
8 Disease Registry. I'm Jack Kelly.

9 MR. SCHROCK: Jack Kelly is from the Agency for
10 Toxic Disease and Substance Registry.

11 MR. KELLY: That's close enough.

12 MR. SCHROCK: All right. And some of you may
13 remember back in 1993 that Agency came out and took notes
14 on some of the people who have been living with
15 contaminated wells for quite some time, and they are, in
16 fact, part of the National Registry to look and see what
17 are the long-term affects of any exposure to some of the
18 chemicals that we have at this site.

19 Now, the main purpose for this meeting is to go
20 over what I call a Proposed Plan, and I am going to get to
21 that in just a minute. But before we go further, I wanted
22 to introduce Kevin Kilmarten who's up here with me, and I
23 wanted to get him to do a five-minute summary of what is
24 the investigation that we're about to undertake, and what
25 are we going to be looking at, because many of you in your

1 homes and properties are going to be involved in this
2 study. So I want to go through that, and then we'll get to
3 the Proposed Plan where we'll actually discuss some of the
4 alternatives you may have already had a chance to look at.
5 Okay, Kevin.

6 MR. KILMARTEN: Good evening. I'm Kevin Kilmarten
7 with Halliburton NUS Corporation. I've probably spoken to
8 just about all of you on the phone at one time or another.
9 It's nice to get a chance to meet you. As Roy mentioned,
10 we're in the midst right now of what's called the Remedial
11 Investigation (RI). We're doing studies both at the site
12 and in the surrounding area in trying to learn more about
13 the hydrogeology of the area, how the ground water's
14 flowing, how the contaminants are reacting with the ground
15 water, and moving through the area, and how that,
16 ultimately, is affecting you.

17 We've started the RI activities, as Roy mentioned,
18 with the sampling of the all of the home wells in the area,
19 and we've been quite active recently. We did a surface
20 geophysics study, that many of you were kind enough to give
21 us access to your property, so we could walk along your
22 property and take some measurements with some of our
23 geophysical instruments. What we were doing there is
24 basically looking for fractures or breaks in the earth's
25 crust, in the bedrock, which are these preferred avenues

1 for the ground water movement and the contaminant
2 migration.

3 We also recently completed a soil gas study where
4 we actually put probes in the ground and withdraw samples
5 of soil gas and analyze those for chemical compounds, and
6 that gives us clues as to what the composition of the soil
7 is, if there maybe has been any disposal of materials in
8 that area, and sometimes even it can give us a clue as to
9 what the composition of the ground water is.

10 Both of those studies are complete. We have the
11 results, and we're right now looking at them and
12 interpreting them and working with Bernice and EPA in
13 interpreting just what those results are telling us.

14 We were also in the-- fairly recently. We took a
15 first round of surface water and sediment samples, where we
16 went out and sampled many of the streams and springs in the
17 area to determine what is the impact of this site on the
18 surface water, on the streams, in the area here. We've
19 recently gotten those results back, and we're actively
20 interpreting those. And we also did a round of sampling of
21 all the monitoring wells in the area. I know many of you
22 have monitoring wells on your property, and again, were
23 kind enough to let us have access to those wells and grab
24 some samples.

25 Where we are right now and what we're planning to

1 do is we'll very soon be taking a second round of stream
2 surface water and sediment sampling for the streams, and
3 again, I'll be calling many of you in the next few weeks
4 again asking permission to walk across your property to get
5 to a creek or a stream or a spring so we can get a sample
6 there. We'll be doing some additional home well sampling,
7 and I'll be calling you soon to try to make arrangements to
8 have permission to sample your wells and arrange a time
9 that we might come by.

10 As far as the site-- investigations up on the site,
11 we'll be doing some soil borings, which are basically auger
12 holes, where we sample the soils down to a specified depth
13 and grab the soil samples and analyze them. And we'll also
14 be doing some test pitting activities, where we have
15 suspicions of past activities and where we need to know a
16 little bit more about what's going on in the subsurface.
17 We'll have a backhoe out there, and we'll actually be doing
18 test pits so we can see what's there and also grab samples
19 for analysis from those pits.

20 Probably the biggest part of the investigation is
21 yet to come, and that's installing additional monitoring
22 wells. Right now we have 33 more wells planned that we'd
23 like to install. As Roy mentioned, in this site, the water
24 is traveling within fractures in the bedrock. It's an
25 extremely complicated hydrogeologic system, and what we

1 need to do is learn more about it to determine just where
2 the contamination has spread, both laterally, say-- you
3 know in a horizontal sense, but also vertically: Where is
4 the contamination near the surface, and where has it gotten
5 down to great depths below the surface?

6 These are questions that really at this point we
7 have some hunches and some general information on, but for
8 the most part, we don't really know yet. And the only way
9 we'll ever find that out is to install these test wells to
10 be able to take samples and to figure out just how is the
11 ground water flowing, and where is the contamination, and
12 where is it headed?

13 Many of these wells-- if you look on the middle
14 poster there-- you can come up after the meeting and take a
15 closer look-- that's showing in the red triangles where
16 some of these additional well clusters are planned.
17 They're not in specific places right now, they're just in
18 general ballpark areas, and as you can see many of them are
19 on-site, but also many of them are also going to be
20 off-site just by, again, the nature of the hydrogeology.
21 We have to go off-site to try to determine, again, how the
22 ground water is flowing.

23 I've spoken to some of you in the past week or two
24 regarding, you know, EPA's plan to install these wells and
25 asking permission from you to install these wells on your

1 property. And again, I will be speaking on behalf of EPA
2 to some of you in the near future for the same reason, to
3 ask permission to install these wells.

4 And as far as the timing goes, as I said the
5 investigation is ongoing. The well drilling, the
6 monitoring well drilling, we hope to start in about a
7 month. We're shooting for about mid-April, and we think it
8 will be probably between about four to six weeks to
9 complete that investigation, after which we will be taking
10 samples and analyzing all that data. That basically sums
11 up the Remedial Investigation.

12 What I would like to do is just take the
13 opportunity right now to introduce one person. He's the
14 gentleman over here in the blue sweater. His name is
15 Robert Good. He's the Field Investigation Leader for the
16 entire study. I know many of you have met him before. He
17 was the gentleman that came by and sampled your home wells,
18 and he'll be out here doing the bulk of these
19 investigations.

20 MR. SCHROCK: Thank you. One thing I just wanted
21 to make a comment on, the whole activity of drilling wells
22 up on that mountain is really going to be a very difficult
23 task. I know he's estimated four to six weeks, but I've
24 seen drillers at work up in this area, and it can be a
25 rather difficult thing to do. They plan to put in wells in

1 clusters, in groups of three, at shallow depths, a
2 mid-level, and then a deeper one, and then even some
3 locations go down to 500 feet. So it's going to be quite
4 an undertaking, and I think they'll need some help just
5 getting through all that kind of activity.

6 Okay. The main focus of this meeting is to go over
7 what I call EPA's Proposed Plan, and the purpose of this is
8 to actually get comments from the public. It's been out in
9 some of the township offices for a couple of weeks, and I
10 have spoken to several of you on occasion about this, and I
11 have actually received some comments. And what I'd like to
12 do is to sort of go through this a little bit to try and
13 bring out some ideas that you maybe wanted to bring up in
14 the questions and answers.

15 It's not a formal meeting. If I'm going through
16 something and you want to stop and ask a question, feel
17 free, but if you want to wait until I'm through, that's
18 okay too, or if you want to wait until we've actually
19 closed the meeting and then ask individually from any of
20 the parties up here, that will be all right, too. Okay. I
21 guess the most important thing to me is that we do have a
22 structured comment period, which is supposedly going to end
23 on March 12th. And at this time that's what I'm planning,
24 and that's what I expect will happen.

25 Following that, I am going to have to prepare

1 another document called a Record of Decision which
2 summarizes which one we really picked, according to the
3 Agency. My managers are the final decisions makers, and it
4 would also be a response to all of the comments that have
5 been received from the public, including the transcript of
6 this meeting, and things that we need to answer from the
7 questions asked at this meeting. But I think one of the
8 first things I want to talk about, before I get into the
9 individual alternatives, is some of the background of this
10 site.

11 Now, at this time, we don't have a specific
12 location. We don't have a specific place that anything was
13 really dumped. All right. Our belief is that a chemical
14 known as trichloroethylene, which is a solvent used as an
15 industrial degreaser-- basically cleaning off equipment--
16 type of a solvent-- that would be used, and then after it's
17 dirty, then discarded.

18 Our belief is that at some point in the past,
19 approximately late 1960s early 1970s, the Bally Case and
20 Cooler used those kinds of materials and ultimately
21 disposed of them. We have some idea that maybe a
22 transporter who picked up some drums from the facility,
23 Bally Case and Cooler, before it became Bally Engineer
24 Structures, and took them up to the Farm and possibly other
25 locations in this area. But, again, we don't have hard

1 evidence as to where it is and exactly who it came from.
2 These are the stories that we've been told, by not only the
3 people who live around here, but down through the years,
4 I've heard it from a number of different sources.

5 CITIZEN: If that's the case, then why did you
6 identify it as the Crossley Farm Site if you've got no
7 proof that anything was put there?

8 MR. SCHROCK: All right. We have monitoring wells
9 on the property back from the 1986 work we did up there.
10 That, basically, showed contaminants from each of those
11 monitoring wells, and based on what we know of the
12 hydrogeology, it appears to start somewhere up on top of
13 Blackhead Hill.

14 CITIZEN: But you have no proof that that's the
15 site?

16 MR. SCHROCK: That's where we're going after to
17 look right now.

18 CITIZEN: But you have no proof.

19 MR. SCHROCK: I know that we have ground water
20 that's contaminated. I know enough about the ground water
21 flow patterns to say it started somewhere from that area.

22 CITIZEN: Well, my question was, why did you
23 identify the site with a specific individual's name?

24 MR. SCHROCK: That is part of the process EPA went
25 through when they identified sites and put them on the

1 National Priorities List.

2 CITIZEN: You think that's fair?

3 MR. SCHROCK: Well, this site is also known as the
4 Hereford Ground Water Contamination Site.

5 CITIZEN: Then it should have been put that, and
6 the person's name should not have been put on the document.

7 MR. SCHROCK: Well, I'll be honest with you, I
8 actually agree with you, and that's what I was leading up
9 to here. I don't think we can specifically blame a
10 particular person for any of this problem at this time. In
11 fact, I don't think we can blame anybody, because that was
12 pretty much a normal practice back in those days. We only
13 have the evidence that we believe the ground water flow
14 begins from there and it spreads outward.

15 But you're absolutely right, I truly do not think
16 it's fair to single out one specific person and one
17 specific name to be associated with this site.

18 CITIZEN: But I think, personally, it should be
19 documented that all future documentation relative to this
20 dilemma should have the Crossley named stricken off of it.

21 MR. SCHROCK: Okay.

22 CITIZEN: Anything less than that would be
23 unacceptable.

24 MR. SCHROCK: Okay. I don't disagree, but I'm
25 going to have to go back and you know there is a process to

1 quote change the name of the this site. I've tried my best
2 to specifically down play any responsibility and that name,
3 when I can, but again, the name on that National Priorities
4 List does say Crossley Farm, even though ground water--
5 Hereford Ground Water is another name that we've used for
6 this site.

7 But again, that was sort of the point I was trying
8 to lead to. I don't think we can specifically blame
9 anybody or any individuals for this problem. We do have
10 something that we need to find. If we can find where it's
11 coming from and if we can take out anything that may be
12 creating this ongoing problem, that's one part of the
13 study.

14 The second part, which is the main focus of this
15 meeting, is to try and provide acceptable treatment for the
16 homeowners who are affected by this problem so that they
17 can continue to live in their homes and not fear any
18 contamination that's existing in ground water.

19 CITIZEN: Do you have any idea what the length of
20 time is that you're talking about cleaning this up?

21 MR. SCHROCK: Okay. This particular Proposed Plan
22 is called a interim remedy, which means I'm not finished
23 doing my study yet. What I've costed out in this
24 particular plan is five years of actually maintaining these
25 point-of-entry treatment systems. So I'm basically looking

1 about two to three years, before EPA would come up with a
2 final action as to how we're going to clean up this site.

3 In terms of how long it would take to actually do
4 the clean-up, I couldn't honestly tell you that right now.
5 I can tell you some things in terms of the history of the
6 site. We have known of the contamination for almost 15
7 years, and what we have seen is that the concentrations,
8 even in some of the further areas, have pretty much
9 remained stable. We are not seeing in most of the homes
10 any fluctuation up or down.

11 Now, some do and I won't deny that. You may be one
12 of those people who's seen a trend going up or down, but,
13 in reality, we've got something here that seems to be
14 sticking with us for a long time. So I do not have a good
15 answer now to say how long it might take. If we can find a
16 particular spot where some of it may be able to be cleaned
17 up, we'll be lucky.

18 Okay. This trichloroethylene, or the TCE, is
19 actually heavier than water. So what we're finding is that
20 it's sinking down into the bedrock, and it's probably
21 laying in puddles on different locations throughout the
22 mountainside. So when these guys are going to start this
23 drilling program to put in monitoring wells, the
24 possibility for them to find one of these spots where the
25 concentration's so high we should pump it out immediately

1 and get rid that it, I can only hope for that. But it will
2 be around for a long time, which is why this is only an
3 interim remedy.

4 We need to do something immediately for homeowners
5 who are affected and those who have the potential to be
6 affected in the future, and we need to complete the study
7 to see if there's a way we can get through a long-term
8 clean-up program.

9 CITIZEN: What are the health risks from drinking
10 this water? We've been drinking this water, especially the
11 children.

12 MR. SCHROCK: Nancy, this is a health risk
13 question. Do you want to try and answer that?

14 MS. JAFOLLA: It varies from residential well to
15 residential well at this point. So I couldn't tell you
16 what they are for all of the wells but for each well where,
17 in general, I believe it does range from 1×10^{-3} to $1 \times$
18 10^{-6} .

19 MR. SCHROCK: Can you hear her?

20 MS. JAFOLLA: Okay. In general, the risks-- I
21 can't tell you what the risks were for each of the wells at
22 this point. They all vary but maybe after the meeting--

23 MR. SCHROCK: What we have in the Focus Feasibility
24 Study is some of the risk numbers for each of the wells.
25 And I think what's important is that everybody's well is

1 different. But in terms of the general risks,
2 trichloroethylene is a cancer-causing agent. So that's one
3 of our primary concerns with this substance.

4 This substance also has effects that are
5 noncancer-causing but causes other health problems. So
6 that's why we feel it's very important to do something
7 about the wells that are contaminated or have potential.

8 MS. JAFOLLA: Now, in those risks for your
9 individuals wells, I can discuss with you on a one-on-one
10 basis. In general, they range between 1×10^{-3} and 1×10
11 -6 . Of course, children are a sensitive population, so if
12 your well had a contaminant level of above what we call
13 "the removal levels," which I believe is 160 parts per
14 billion for trichloroethylene, which is the main
15 contaminant at this particular site, then you have already
16 received a treatment system for that particular well.

17 If your levels fall below that, you have not
18 received a treatment system. The risk levels are not
19 expected to be below-- above those risks that are
20 acceptable by the EPA-- the EPA accommodates, but they will
21 be considered during this interim action. In fact, Roy
22 will continue to talk about this and any of the wells where
23 we had any tests at all, will be receiving a treatment
24 system. So those risks will be minimal for any child who
25 is exposed.

1 MR. SCHROCK: Okay. Back there.

2 CITIZEN: I remember reading in the EPA documents
3 that you have not proved that the levels that you found are
4 detrimental to human health, by your own document's
5 admission.

6 MR. SCHROCK: Well, EPA has set certain standards
7 for any public drinking water supply, which is basically
8 the levels about which I'm very concerned, and that is the
9 5 parts per billion for trichloroethylene. As far as our
10 remedy is concerned, anything that is above 5 parts per
11 trillion does-- 5 parts per billion, excuse me-- does
12 require some kind of treatment under EPA's responsibility
13 for this site. In terms of what actually causes cancer and
14 what doesn't cause cancer, I'm not the person who does that
15 kind of research. I follow the regulations that currently
16 exist.

17 MS. JAFOLLA: I think what that document says is
18 that the toxic effects of trichloroethylene are currently
19 being reviewed by the Agency. We're not necessarily saying
20 that it's not toxic. We're just saying that we're not sure
21 how toxic it is and that it could be less toxic than we
22 think it is. The reviews should be coming in shortly.
23 Within the next year we should have more data on that.
24 However, currently what we need to go by is the MCL, the
25 Maximum Contaminant Level, which is something that might

1 would lead--

2 MR. SCHROCK: The Maximum Contaminant Levels are
3 pretty much the trigger at which the EPA decides they've
4 got to do an action.

5 MS. JAFOLLA: It's an action level, and so that
6 still stands no matter what the EPA-- what these studies
7 are coming-- going to come up with.

8 CITIZEN: So basically, at the moment, you don't
9 have any proof of anything?

10 MR. SCHROCK: No, we still--

11 MS. JAFOLLA: We still have a Maximum Contaminant
12 Level we need to abide by.

13 CITIZEN: Which is?

14 MS. JAFOLLA: Which is 5 parts per billion of TCE.

15 CITIZEN: Per billion?

16 MS. JAFOLLA: 5 parts per billion of TCE.

17 CITIZEN: What was the 160 you mentioned?

18 MS. JAFOLLA: The 160 is our reviewable action
19 number, and that's a risk-based concentration. It's purely
20 based on risks. It's not an MCL, which is based on other
21 factors, such as the feasibility of cleaning it up.

22 MR. SCHROCK: That's an important thing, because
23 Nancy just mentioned that the risk range on your question
24 was what she said, 10^{-3} or 10^{-7} or even higher numbers.

25 MS. JAFOLLA: Most wells were within the risk

1 range. There were only three blocks, and I think you know
2 who you are, where there was a problem, and for those
3 wells, the risk level could have been below-- greater than
4 1×10^{-4} , 1×10^{-3} .

5 MR. SCHROCK: But 10^{-3} , what that means is a
6 chance that there is an excess cancer above what normally
7 occurs in this country of one in a thousand. Am I right?
8 10 to the minus--

9 MS. JAFOLLA: Of one in three or one in four
10 actually. Your background risk is--

11 MR. SCHROCK: Now, 10^{-4} means there is a chance
12 for one cancer above background, above the normal, 1 out of
13 10,000. That's where the 160 comes from, from that risk
14 number.

15 Now, again, what we're planning to do now is lower
16 it to 5 parts per billion so that anybody at that level
17 needs to have treatment, but beyond that, we're saying that
18 some of those home wells that have even 1 part per billion
19 or less than 1 part per billion could be impacted in the
20 future.

21 Therefore, we are going to provide the option for
22 that homeowner, if they choose-- we're not forcing anybody
23 to take a treatment system who doesn't want it-- if they
24 choose, we could provide that under this proposed plan.

25 CITIZEN: What's the furthest point from this Far

1 area where you suspect the origin? What is the farthest
2 you have tested from that area?

3 MR. SCHROCK: Basically, the intersection of
4 Forgedale and Dale.

5 CITIZEN: Well, there's a spring located at
6 Forgedale and old Route 100. Have you tested that level?

7 MR. SCHROCK: Yes. As far as I know that was clean
8 from the chemicals that we know are at this site.

9 CITIZEN: Yes, because a number of years ago I know
10 that a doctor in the area, at that point in time, had that
11 water tested and found it to be a noncontaminable.

12 MR. SCHROCK: Yeah. We do not find the
13 trichloroethylene from this site. I have heard, bearing on
14 season and time of year, that sometimes the bacteria levels
15 are high in there, but again, that's not what I'm testing
16 for at this point.

17 CITIZEN: Well, one of the reasons I'm questioning
18 that point was that I know that the Federal Government
19 doesn't want to spend tax dollars any more so than they
20 have to. Therefore, I was wondering why they were
21 considering coming as far down as Forgedale Road and Route
22 100?

23 MR. SCHROCK: Well, we've had contaminants reported
24 on Forgedale. That, you know-- I think is just for
25 everybody's peace of mind. A lot of people go get water

1 from that spring. That's a source that I think we have a
2 responsibility to look at since I'm doing the whole area,
3 and I'm still going to be looking at that. One of the
4 deeper wells is going to be between the site and the old
5 Route 100 to try and look at like 500-feet deep to see does
6 there have any movement coming through that?

7 CITIZEN: How far is the site at this location
8 from the Texas Eastern?

9 MR. SCHROCK: Well, that's right close there to
10 Forgedale Road. I think it's 9,000 feet, something like
11 that, but I'm not good on those kinds of numbers.

12 Okay, let me try and get a few more questions.

13 CITIZEN: Have you found any similarities between
14 the Hereford Township Site and the District Township
15 Superfund Site, approximately 4 and a half miles north off
16 of Benfield Road, where all of the wells were drilled there
17 and the cleanup was up there? Have you compared the
18 similarities of what was found in both places?

19 MR. SCHROCK: As far as I know-- I think you're
20 talking about what I call the the Berks Sand Pit Site?

21 CITIZEN: Right.

22 MR. SCHROCK: And I think that's in Longswamp
23 Township. But there are similarities in the fact that they
24 both used the industrial solvents, but they are
25 specifically different compounds: Trichloroethylene and

1 trichloroethane. One is called TCE which is what we have
2 at this site. The other one is called TCA, so they are not
3 the same compound, but they certainly behave similarly and
4 are health effects-wise very close.

5 CITIZEN: Were they both used at Bally Case and
6 Cooler.

7 MR. SCHROCK: They were used interchangeably back
8 in the 1960s. They both did the same thing, so I couldn't
9 tell you for sure. I honestly don't have-- Bally is
10 another Superfund site in and of itself, and I don't have a
11 lot of the history of the company to go on at this point.

12 CITIZEN: You said that you were going to dig
13 deeper in the bedrock. My question is (not audible) deeper
14 into the bedrock, wouldn't it be better to take samples
15 around Bally rather than to drill the wells deeper and
16 possibly contaminate it deeper (not audible.)

17 MR. SCHROCK: Okay. The question, basically, if I
18 can summarize for the stenographer, was why do you need to
19 drill such deeper wells further away from the site, instead
20 of wells closer to the site? Is that it?

21 CITIZEN: Well, if you go out of the mountain and
22 test the wells around the mountain, you get the same depth
23 of water (not audible) drilling to 500 or 800 feet or
24 whatever you're going to go.

25 MR. SCHROCK: Well, by putting in the wells as

1 we're doing-- and correct me if I'm not completely right--
2 I can isolate a certain fracture. The home wells that are
3 existing out there, I cannot really go back and make sure
4 that it's this fracture verses 1 in 60 versus 1 in 40. You
5 know, it's pretty much-- I believe many of them could be
6 open holes. Many of them have been around longer than we
7 have records. So we are going to be doing some closer to
8 this site before we even get to where the home wells are,
9 as well as going out beyond the home wells and going
10 deeper.

11 CITIZEN: But by going deeper, if you don't have a
12 pollutant deeper, you're going to contaminate the water
13 deeper.

14 MR. SCHROCK: No. We can seal the hole as we go
15 down. We will be looking at a depth rather than leaving an
16 open hole. Am I right?

17 MR. KILMARTEN: Yes.

18 MS. PASQUINI: Basically, when we're drilling these
19 deeper wells-- it's a very good question that you brought
20 up. We don't want to bring contamination deeper. The
21 reason why we're looking to 500-feet deep is to get an
22 understanding where the regional flow system is discharging
23 and to make sure that the contamination, the
24 trichloroethylene, which has a tendency to sink down deep
25 into the rock where there are fractures and settle into

1 these fractures, we want to make sure that the well system
2 that we have, or the monitoring system that we have, is
3 evaluating whether or not the contamination hasn't gone
4 deep and it isn't going underneath your wells and going,
5 for example, to Bally and to some wells that are in the
6 valley there.

7 CITIZEN: Can you indicate on the map or verbally
8 describe where you found the plume of contamination or some
9 kind of landmarks?

10 MR. SCHROCK: This is actually the map that I've
11 been using to talk about when I say it's Alternative 4,
12 which was extending the water line. It is not the
13 Preferred Alternative at this time, but I feel we had to
14 look at it to see what the possibilities are that, again,
15 would provide protection to individual homeowners. All
16 right, so based on this map I'll try and tell you where we
17 have seen the contaminants.

18 Okay. This is Huffs Church Road going here, Dale
19 Road going down here, and then Forgedale at the bottom.
20 This is Dairy Lane. I can't remember the name of this
21 one.

22 All right, the way this map was drawn is to show
23 two alternatives for this water line, which we're not
24 proposing to do, but just to give an idea to the public
25 what we're looking at. The solid lines go by homes that

1 are actually contaminated that would need treatment. We
2 have at least 30 wells that are above the contaminant level
3 of 5 parts per billion. The solid lines go by those
4 homes. So, again, the main focus is right here on Dale
5 Road, not far from the top of Blackhead Hill.

6 CITIZEN: So that map actually describes where
7 you've found the contamination? That's where you found it,
8 and that's sort of an outline of the plume of where it's
9 been found?

10 MR. SCHROCK: Basically, from here to there.

11 CITIZEN: What is that road down at the bottom?
12 Is that Forgedale going on to 100?

13 MR. SCHROCK: Yes.

14 CITIZEN: Where does 100 come in?

15 MR. SCHROCK: Down at the very bottom of the map.

16 CITIZEN: That black ball?

17 MR. SCHROCK: Yes. Now, there are not any homes
18 contaminated that far down, but yet, the water line would
19 have to come up through there as we--

20 CITIZEN: So where is the last point of
21 contamination?

22 MR. SCHROCK: Basically right in through here.

23 CITIZEN: Then I think we got a faulty notice
24 because we're further south on Forgedale Road.

25 MR. SCHROCK: There are at least four homes in

1 Washington Township. I am not exactly sure. I don't know
2 your names and all, but we can work that out with Kevin and
3 Bernice and put that together a little better.

4 Now, the other reason that I have the dotted lines
5 is that a second part of the water line alternative, which
6 again we're not planning to do, was to make it a loop
7 system. From what I understand, in terms of water quality,
8 a loop system makes for better water quality for the
9 individual homeowners who use it, as well as if there's a
10 problem with the line, it gives us another way to get the
11 water there. So this is basically the map showing
12 Alternative 4. One was the loop which was about 11
13 million, and one was just the branch going to the homes
14 that need it, and that was about 8 million.

15 CITIZEN: Can you tell us a little bit about the
16 treatments that you put in the individual homes? In other
17 words, are we running any kind of a risk with the treatment
18 systems?

19 MR. SCHROCK: Kevin, why don't you talk about the
20 treatment system that we're proposing in Alternative 3,
21 which was the point-of-entry treatment, which is the one
22 we're actually proposing to use.

23 CITIZEN: Or the ones-- say the ones we have
24 already.

25 MR. SCHROCK: Well, basically we are using the same

1 systems--

2 CITIZEN: Uh-huh.

3 MR. SCHROCK: --using the carbon filters, so let me
4 have Kevin talk about that for a little bit.

5 MR. KILMARTEN: Okay. What I have in front of me,
6 this is a-- just a schematic of what the treatment system
7 looks like in, maybe, engineering terms. This figure is
8 from the Focus Feasibility Study, and basically, what it
9 is, it's a dual carbon system treatment unit. What it does
10 is as the water comes in from your well-- there's various
11 components to the system. What you see here, there's a
12 pre-filter that takes out sediment or silt or, you know,
13 just solids that may be kicked up by the pumping of the
14 well. There's then two individual carbon units.

15 What we have found with the units that are
16 presently, you know, in the area operating, is that by far
17 and away, the large, large majority of the compounds are
18 removed by the first carbon unit. But as a safety measure,
19 we designed it with two carbon units. And what that does
20 is, if by some chance one of the chemical compounds was to
21 what we call "break through" the first unit, we have a
22 second unit-- and naturally any compound that would break
23 through the first unit is going to be in very, very low
24 concentrations, because most of it's been removed by the
25 first unit. Then you have a fresh second unit behind it

1 that really will capture any of the compounds that would
2 happen to break through.

3 After the water has passed through both of these
4 carbon units and all of these compounds have been filtered
5 out, there's-- in this case here, you see a UV, or
6 ultraviolet system, and what that does is destroys any
7 bacteria that may be in the water, and from there the
8 water, as you see, goes to your pressure tank and
9 ultimately into your system.

10 The system is also designed-- you can see-- if you
11 see maybe these symbols here, they're sampling ports, and
12 for you folks who do have these units at your house, you
13 know, that many times either my company or another
14 contractor from EPA comes by to sample your well. And what
15 they often do is they'll take a sample from before the
16 carbon units to see what that raw water coming out of the
17 ground is composed of. They'll sample between the units
18 to-- basically what they're doing there is monitoring the
19 condition of this first tank, because after a while, then
20 the carbon basically gets spent, or gets used up, to where
21 it just can't absorb any contamination.

22 Again that's the reason we have the second unit as
23 sort of a backup or fail-safe unit, but also by sampling in
24 between, we know when it's time to change these units out
25 and get fresh carbon in there. And typically the third

1 sample that's taken then would either be from one of these
2 sampling ports here or actually we go right to your tank to
3 sample just what that finished product-- what your water
4 is.

5 CITIZEN: How often do they have to change the
6 filters, or whatever, or do they have to change the
7 filters, the carbon filters?

8 MR. KILMARTEN: Roy, do you know the answer to
9 that?

10 MR. SCHROCK: What we're planning to do with this
11 plan, and again I don't know exactly how often EPA has been
12 out there for each of the homeowners before, is to take
13 these samples every six months, and if it needs to be
14 replaced, we would replace one of those two carbon tanks.
15 And my understanding is when we did the engineering design
16 work for this Feasibility Study, we oversized them so that
17 theoretically it could last a year, but we still, I think,
18 need to check, particularly on some of the homes that have
19 higher concentrations.

20 CITIZEN: How big are these tanks?

21 MR. SCHROCK: Do you know what size they put them
22 at?

23 MR. GOOD: Maybe a foot in diameter, 4 feet tall.

24 CITIZEN: Sir, why do you take the aerator off the
25 spicket before you take a sample?

1 MR. SCHROCK: Why do I take what?

2 CITIZEN: The aerator off the spicket before the
3 EPA will take a sample of the water?

4 MR. SCHROCK: These are volatile compounds that
5 they would actually get dispersed in the air. One of the
6 ways they can treat them is to trickle them down over a
7 number of layers so that they actually leave the water and
8 go into the air. They would evaporate. So an aerator
9 would lessen the concentration that they are really seeing
10 at the tap. I think I'm right. Rob?

11 CITIZEN: You have here that 29 residents have
12 been identified. Was that from the sampling you did from
13 November and December of--

14 MR. SCHROCK: Yes. Those were 29 residents that
15 were above the level of the MCL of 5.

16 CITIZEN: That was about 14 or 15 months ago. If
17 we weren't contaminated then, who's to say that we're not
18 contaminated now?

19 MR. SCHROCK: Well, we're going to be going around
20 and doing more rounds, as well as-- if there was even trace
21 levels of contaminants from TCE or other compounds, we
22 would have to be looking again. But we are planning to do
23 another follow-up round of all of the residents before we
24 finish this remedial investigation.

25 CITIZEN: A couple of questions. I have been

1 monitoring my water quality over the last three years. It
2 started out to be, I think, 62 parts per billion of the TCE
3 and it's been steadily rising. Your study indicated that
4 if it was up over 1100 of (not audible) that that might be
5 low. I'm wondering if you're seeing the same type of trend
6 at other residences as well, and did you consider those
7 trends in your evaluation of the treatments systems?
8 Plainly speaking, mine seems to be getting quite a bit
9 worse at a fast pace. I'm wondering if this system will be
10 adequate?

11 MR. SCHROCK: It should be adequate in terms of
12 treatment, and again, they're oversized so that we will be
13 able to come back every six months and check in between.
14 do believe that you may be in a spot where the level of
15 contaminants are rising and going down toward the valley
16 over there, but again, we're going to have to keep track of
17 that one.

18 You were not-- not that it's going to make any
19 difference, who is or who isn't, you were not the absolute
20 highest in terms of contamination, and the current wells
21 are there and are still working for those residents who
22 have even higher concentrations, but it would mean we may
23 need to replace yours more often because of that kind of
24 concentration.

25 CITIZEN: With a reading of 1100, when would you

1 expect that this plan gets-- goes through, and I'd get some
2 treatment system help?

3 MR. SCHROCK: All right, timing. If we go forward
4 with this point-of-entry treatment system by-- I would like
5 to get the record of decision out by either the end of
6 March or the middle of April. In terms of process, I have
7 to begin what I call a design phase; who gets them. We
8 find this system to make sure it will deal with each of the
9 homeowner's problems. We may have some metals we might
10 have to worry about that this system may not, in fact, deal
11 with, there may be some bacterial problems that the UV may
12 have to be upgraded to something better.

13 But at any rate the design phase could last as long
14 as-- I'd say three or four months, so I could maybe start
15 installing units within eight, nine months from now.
16 That's probably the best schedule I could hope for.

17 CITIZEN: Relative to the fact that it's been going
18 for a long time and from what I hear you saying, there is
19 no guarantee that this scenario that has been placed over
20 the area, whether real or imagined, would be corrected by
21 these treatment systems. It seems to me that the only
22 viable alternative to remove the whole scenario throughout
23 this whole area is for you to, indeed, deal with number 4
24 in your plan.

25 MR. SCHROCK: Well, that's something we're going to

1 have to look at again. I mean it's not gone.

2 CITIZEN: Because otherwise who's to say that three
3 years from now something else could develop out of who
4 knows where.

5 MR. SCHROCK: Exactly.

6 CITIZEN: So how could you possibly stand there and
7 say those systems that are costing millions of dollars that
8 are not essentially, on the long haul, effective to be a
9 viable option. And how can you possibly say that the first
10 option has no-- first option is do nothing. I mean if
11 we're talking about the risk factor, how can you possibly
12 say that one of your options is to do nothing?

13 MR. SCHROCK: That's required by the law that--

14 CITIZEN: Required by the law? It seems to me
15 that the only viable solution, that what I hear you saying,
16 is that to remove this God knows what out of the area
17 that's been perpetuated, is to effect the area with a clean
18 water line.

19 MR. SCHROCK: Again this option that we're
20 selecting right now is considered interim. We want to
21 finish the entire study to see what we know about the
22 entire area. Believe me, the water line option will come
23 up again in two years when I'm looking at a final remedy
24 for this site, but right now what the Agency is looking at,
25 spending 11 million dollars versus 1 million dollars, we

1 would prefer to look at the entire site, finish our study,
2 and then look at what is the final remedy to clean up this
3 site, and water line, again, will be considered.

4 CITIZEN: You've been spending millions of dollars
5 for last 15 years.

6 MR. SCHROCK: I know but that's--

7 CITIZEN: That's our money that your spending.

8 MR. SCHROCK: Well, a lot of it comes from the
9 industry and income tax, not that they don't turn around
10 and charge every homeowner out there for it, you're right.
11 But yet, the fund is in place.

12 Well, right now, to be truthful, Congress has not
13 reauthorized the fund. If I chose the water line right
14 now, I don't know when I'd have 11 million dollars to put
15 in that system. That doesn't change the fact that I do
16 need to do something right now. Even if I selected the
17 water line now, I would still put carbon units on these
18 homes until I get a water line built. So I think we need
19 to start something and ultimately we will have to look at
20 the water line option again.

21 CITIZEN: Are they going to put water filters on
22 all the homes that are border property to this site, even
23 if they're below minimum of what you would call safe
24 levels?

25 MR. SCHROCK: If we have found any historical

1 detections, we are going to give that homeowner an option
2 as to whether he wants a filter or not.

3 CITIZEN: Even if it's--

4 MR. SCHROCK: If it's below the 5, yes. And even
5 if it's a different compound other than the
6 trichloroethylene, you could very well be impacted in the
7 future so we'd rather be safe and cautious.

8 CITIZEN: Well, my property borders-- is a border
9 property to this site and supposedly is supposed to be
10 under safe levels. Will they put a filter on my home in
11 case of contamination?

12 MR. SCHROCK: If there's a detection, yes. We're
13 considering that.

14 CITIZEN: I've already just had one cancer
15 operation, and I can't afford to go six months until they
16 test my water again and find all of a sudden that it's
17 contaminated. Six months of drinking that water could kill
18 me.

19 MR. SCHROCK: I'd have to look at your results that
20 we sent to you, and I could tell you just by looking. But
21 if you had detections, yes, you're in the consideration.

22 CITIZEN: Do those levels-- is there any
23 possibility of anything being in that water or if it falls
24 below the safe levels it's nondetectable? How does that
25 work?

1 MR. SCHROCK: Well, there are detection levels,
2 yes. There are cases where you could see a non-detect and
3 something could be there, but we specifically chose a very,
4 very low detection, in fact, I think the lowest that we
5 could obtain. We've used the best detection and the lowest
6 detection that we could use.

7 In fact, the EPA laboratories did the analysis, so
8 I'm not even as concerned about did they do it right? I
9 have people who do their own work, their own analysis, and
10 they do their own quality checks to make sure that they did
11 it correct.

12 CITIZEN: So if the water's considered safe to
13 drink from a fountain, even though you're bordering on the
14 property, you won't put a protective device on the home?

15 MR. SCHROCK: No, that's not what I said-- if you
16 have any detection, even if it's below what's considered
17 safe.

18 CITIZEN: Well, my neighbor came back and it was
19 less than one.

20 MR. SCHROCK: The nondetects?

21 CITIZEN: Nothing was on it.

22 MR. SCHROCK: Well, we'll have to talk about it.
23 I'm not going to say that that means absolutely no. That's
24 part of the comments that we need to work and respond to,
25 but I'm certainly willing to put people who are potentially

1 in the pathway on the system, so that we don't have to
2 worry about that. Now, again, I just don't know exactly
3 where you are and where you live, but yes, it's a
4 possibility.

5 CITIZEN: There's a well not far from here that's
6 contaminated with that same contaminant. What are you
7 doing with that well?

8 MR. SCHROCK: Which one is that?

9 CITIZEN: It's located near the Case and Cooler--

10 MR. SCHROCK: The Bally?

11 CITIZEN: Yes.

12 MR. SCHROCK: That's actually the Bally Municipal
13 System, and what they've done-- and again this is actually
14 the well. If we were to build a water line, this is where
15 the water would come from.

16 What they have done is they've built a stripping
17 tower. I'm not an engineer to describe it exactly, but
18 it's basically a big tower where the water trickles down
19 over a number of different layers, and by the trickling
20 action, the trichloroethylene evaporates from the water,
21 and then it's collected in carbon canisters on top of that
22 tower. They are actually treating the water to meet
23 drinking water standards and then using that as a municipal
24 supply. They actually treat two times the amount that they
25 need to service the number of customers they have, which is

1 why we know there is an additional source of water that we
2 might be able to use, which would be considered a public
3 system.

4 CITIZEN: Wouldn't it appear that first priority
5 should be to locate a contaminant as number one?

6 MR. SCHROCK: Absolutely.

7 CITIZEN: Rather than to spend a whole lot of
8 money in trying to fix something that's just trickling out
9 and leaking out and going all over the place.

10 MR. SCHROCK: That's entirely what we're doing.
11 That's part of the study, trying to locate that, and if I
12 can find a particular spot where something is buried, yes,
13 it's going to be coming out.

14 CITIZEN: That's happening right now?

15 MR. SCHROCK: We're in the middle of doing all of
16 those studies, yes.

17 CITIZEN: How many homes do you have that are not
18 above the risk factor in their wells?

19 MR. SCHROCK: All right. There are really 29
20 homes, and then there's two other wells that are considered
21 public supply at the trailer park up there on Dale Road.
22 So there's basically 30 sources above 5. What I've costed
23 out here, what I consider this Preferred Alternative, looks
24 at up to possibly 70 homes that have some kind of
25 contamination, whether it be the trichloroethylene, whether

1 it be toluene from a sample taken 4 or 5 years ago or
2 even-- some of these samples, we actually think maybe the
3 lab did make a mistake and came out with these extremely
4 low levels of something, but I've included those.

5 We're not really done with it, but approximately
6 somewhere between 70 to 30 would be the number of
7 additional homes we've seen some kind of contamination, not
8 necessarily really from the site, but we don't want to take
9 chances. If it is, we'll provide treatment. That's why I
10 say there might even be homes in the pathway that might be
11 considered, you know, based on location and not necessarily
12 a real hit.

13 CITIZEN: If you don't have a well now, are you
14 going to put one in to be covered under this program?

15 MR. SCHROCK: I guess so. I mean it's hard for me
16 to say at this point. That's, you know, it's hard to say
17 that if you already know it's there, can you put your own
18 well in? But the idea is we will be continuing the
19 sampling.

20 CITIZEN: If I don't put a well in what am I
21 supposed to do not have drinking water for the rest of my
22 life?

23 MR. SCHROCK: Well, again, I can't on blank open
24 statement just say yes in a public meeting like this, but
25 certainly I'm willing to look at homes that have

1 potential. Yes, there's still a potential. If we go
2 around 2 years from now and find something there, then yes,
3 you'd be put into the system. But I couldn't automatically
4 tell you right now that you'd get it, not knowing what the
5 pattern on that end is. The potential's there.

6 CITIZEN: There's some articles in the Mercury a
7 few years ago-- previously there was an article that only
8 goes back about 5 years ago in which there were some
9 interviews done with people that were knowledgeable about
10 what went on (not audible) and they seemed-- the articles
11 that if I recall correctly, they seemed to know exactly
12 where this site was, because there was trees that died, you
13 know, in the immediate vicinity, and I'm wondering if the
14 people around here knows so much about where this stuff
15 was, why are you guys having such a hard time finding that
16 source?

17 MR. SCHROCK: Well, what we've done is we've gone
18 back to aerial photographs from the 1950s up through-- we
19 looked at places that could be disturbed-- and that's part
20 of our geophysics, looking for anything that might be
21 metals that are buried, soil gas, looking for any of this
22 trichloroethylene that would vaporize up through the
23 soils-- and there still might be places that we haven't
24 looked that we still need to.

25 One of the biggest problems that I've seen up in

1 this area, and I've worked up at the Berks Sand Pit Site,
2 is that there are a lot of sinkholes, and there are a lot
3 of mining shafts around here that-- I am not responsible
4 for looking at all of it. However, in this particular
5 location, we've got to find an area that we're doing our
6 study, but if there are other areas that we need to look
7 at, even if it's across Huffs Church Road, we are going to
8 be sort of expanding our residential well sampling to see
9 if there are other homes that might be affected by other
10 areas close by, but again, I have heard all the stories.
11 I've got a lot of those stories in writing, and that's part
12 of the way we planned the study, to look at the areas that
13 people have told us about.

14 CITIZEN: Will you be actively checking out these
15 mine holes?

16 MR. SCHROCK: If they're within the area of the
17 Crossley Site, the Superfund Site, and if we think that
18 they are impacting homes here, yes, we will be going out.
19 If they are outside of what I consider this site, we can
20 refer them to another program that does site investigations
21 and can go out and take samples. Again, EPA does that
22 responsibility, but if we have information and we need to
23 go look at another place, there are people from EPA who can
24 get that work done.

25 CITIZEN: Why are they allowing continual dumping

1 on the site of the municipal waste if there's already a
2 problem in this area?

3 MR. SCHROCK: Well, to my knowledge, there's no
4 dumping going on at this site.

5 CITIZEN: (not audible) tanks which are pumping
6 municipal waste from the sewer plant. Why are they
7 allowing that when there's already a problem?

8 MR. SCHROCK: I've already looked at the analytical
9 results from that sewer sludge. They do not contain the
10 kind of chemicals that we have a problem with here.
11 There's a whole other state-regulated law agency called the
12 Land Farming-- what's it called? At any rate, they have a
13 permit to put this sludge back into the soil.

14 CITIZEN: But how much are they going to put this
15 community at risk by allowing them to dump different
16 chemicals at this Farm?

17 MR. SCHROCK: I've looked at the results. They do
18 not have the different chemicals that we're worried about.

19 CITIZEN: What's the difference? That still can
20 affect residences in the areas with the high bacteria
21 levels in the water.

22 MR. SCHROCK: Well, again, that's a concern-- and I
23 do know who we can contact to address that, but they
24 definitely are not putting in the contaminants that we have
25 seen coming from this site.

1 CITIZEN: Sir, when did they change the
2 interpretation of the gases from parts per million to parts
3 per billion, and why?

4 MR. SCHROCK: I'm not a chemist. I think it's just
5 the matter of progress in terms of how good analytical
6 methods can be. I have other sites where we're looking at
7 dioxin in well below parts per trillion levels. Analytical
8 methods are simply getting better as we progress, so the
9 Agency is using better methods to find lower levels all the
10 time, any number of different compounds.

11 CITIZEN: Regarding your map showing the proposed
12 borderline for Alternative 4, I'd like to make note that
13 that is not the closest route. Crow Hill Road is the
14 shortest route by eight-tenths of a mile and is about
15 approximately the same route as if you take 7th Street out
16 of the Borough, down around Stone Road, right through Dairy
17 Road at one of the sites.

18 MR. SCHROCK: Okay.

19 CITIZEN: If you're considering the water line,
20 wouldn't it be more cost-effective to have a common well
21 closer to the site and treat the water and redistribute it
22 from there, instead of pumping it uphill with four pumping
23 stations four miles from Bally.

24 MR. SCHROCK: That's a good question. At this
25 point, I don't know enough about where the contaminants are

1 and where I'm going to put one of those kind of wells. I
2 do need to complete the study before I can even come up
3 with a location, as to where I have to do that, but even
4 more important than that, EPA is not going to put a new
5 well in and operate a water authority.

6 We cannot get into the water authority business. I
7 have to get a municipal authority or a municipal township--
8 somebody who would be willing to operate this, and I can
9 tell you, in Pennsylvania, it's not an easy thing to find.
10 It would most likely be in Hereford Township.

11 CITIZEN: If you build it, we'll run it.

12 MR. SCHROCK: I hear you.

13 CITIZEN: As soon as possible.

14 MR. SCHROCK: This is something that I don't know
15 that I can say now. Again, it may come up two years from
16 now. That might be the best idea, but to be honest, I'd
17 have to put in a whole treatment plant. I'd have to get
18 people to operate the treatment plant. It doesn't
19 necessarily work out to be cheaper by the time I build the
20 system and can run it.

21 CITIZEN: With what Joe said about the shorter
22 route by almost a mile from the Borough line, and where the
23 hydrants are by north Church Street, who made the decisions
24 to plan the route all the way out Route 100 and up
25 Forgedale Road when that's not the shortest route?

1 MR. SCHROCK: We just-- again these are
2 alternatives and we're just looking at--

3 CITIZEN: Is that something EPA decides or the
4 Municipal Authority or--

5 MR. SCHROCK: It was EPA's decision basically, but
6 again, that's one of the purposes of this kind of a comment
7 period. It may be that, you know, once we get into the
8 next phase of design we would be routed a different way.
9 That's a possibility.

10 CITIZEN: What would be a monthly cost for a
11 homeowner to get this water?

12 MR. SCHROCK: We look at that--

13 MR. KILMARTEN: Roughly \$35.

14 MR. SCHROCK: \$35 to \$40 is what we estimated.

15 CITIZEN: We must pay that?

16 MR. SCHROCK: Ultimately, yes, that would be the
17 homeowner's cost. Now, EPA could pay for putting the
18 hookup to the house but would not pay for the monthly
19 bills.

20 CITIZEN: Going back to contaminants, you're using
21 the term (not audible) and reference was made to something
22 which was put on the soil across the board, and I'm also
23 next to that Farm. I was under the impression that what
24 was going on there was actually producing to the growth
25 process of the Farm and it was a positive thing and you,

1 indeed, referred to contaminants. Is that indeed something
2 that's negative about the area, or is it something that is
3 positive in terms of farming industry?

4 MR. SCHROCK: You mean the land farming? The
5 addition of the sludge?

6 CITIZEN: What is put on to the property for the
7 soil?

8 MR. SCHROCK: My understanding is that it does help
9 in terms of growth.

10 CITIZEN: So it's really not a contaminant that
11 you referred to, but actually something that is positive?

12 MR. SCHROCK: I think that's the way the
13 regulations would read under the State. My only concern
14 there, and I don't know-- I didn't look at these results--
15 the thing that I don't know-- and I couldn't interpret for
16 you without a lot of people looking at it for me-- would be
17 the metal content. I just don't know enough. But I did
18 look at that they do not have the trichloroethylene or any
19 of the volatile compounds that we have a problem with at
20 the Crossley Site.

21 CITIZEN: It seems to me that the process itself
22 of eliminating TCE is basically because of the ways they
23 dumped the stuff and it gets, you know, run over the
24 filters and stuff like that. All the TCE is just a bad
25 reaction, and I can see that. (not audible) in the

1 municipal waste.

2 MR. SCHROCK: And they contacted me several years
3 ago and I went, again, purposely to let me see their
4 chemical results so that they could feel comfortable about
5 that.

6 CITIZEN: What were the carcinogenic effects of
7 exposure to TCE? What other less fatal symptoms to people
8 and livestock are we subject to?

9 MS. JAFOLLA: Most of them-- you may have nausea.
10 In cases where you've had exposure to high levels, you may
11 have fainting and-- relative to-- fainting spells and can
12 possibly-- I can't think of the word.

13 CITIZEN: May be episodic or chronic?

14 MS. JAFOLLA: It depends on the exposure. If you
15 have an acute exposure you can actually die from this. You
16 can become unconscious. So it depends on the concentration
17 and the exposure, but with an acute exposure you can become
18 unconscious, and it can lead to death.

19 CITIZEN: Isn't it true that the test data that
20 was done to delineate the possible toxicity of that stuff
21 has only been done on rats and has never been done on
22 humans?

23 MS. JAFOLLA: Yes, that is true.

24 CITIZEN: That is true?

25 MS. JAFOLLA: Right.

1 CITIZEN: There has never been any case whatsoever
2 documented by-- either through the EPA research or anyone
3 else, that exposure to this level of volatile compound has
4 any effect on human health at all? Isn't that a fact?
5 That's correct, is it not?

6 MS. JAFOLLA: I'm going to have Jack answer that.

7 MR. KELLY: My agency is another federal agency
8 different from the EPA. We're involved with a lot-- quite
9 a bit of research on TCE and the effects of low levels.
10 Potentially you're right. If you're asking the levels
11 found in these wells, if we had any evidence today, they in
12 fact, would know that they would cause effects to humans,
13 I'd say no. Most-- we do have human data--

14 CITIZEN: May I interject a second here? Don't
15 you think that's a very, very critical point that you just
16 made? You just said that there is no evidence and you just
17 said, no, there is no effect on people's health from the
18 levels you have found in this well. But don't you think
19 that's a pretty important--

20 MR. KELLY: It is important, but the whole signs of
21 risk assessment that we do, we come up with levels to say
22 what's safe or not safe to humans. We have to be prudent.
23 We have to extrapolate downward from animal studies--

24 CITIZEN: But isn't it true that the United States
25 Congress for the last six years has been trying to get the

1 EPA to deal with the concept of risk assessment and they
2 have been fighting it tooth and nail? It is my
3 understanding of it and risk assessment basically says that
4 all of us want to have a clean, healthy environment.

5 However, before we allocate the type of funding
6 necessary, we need to prove that what we're talking about
7 is, in fact, detrimental to humans. And in this case here,
8 there is no evidence whatsoever, either documented or
9 suspected, that these type of compounds have any effect on
10 humans.

11 CITIZEN: I will not take that chance, sir. I
12 will not take that chance.

13 MR. KELLY: Wait a minute. Wait a minute. Let me
14 answer this one. I will, believe me. I have to
15 wholeheartedly disagree with you, because essentially,
16 you're asking folks to live with this. You're asking folks
17 to say if there's been no documented health effects--

18 CITIZEN: I'm not saying that. I'm just saying
19 has there been any viable testing? And I'm going back to
20 what you just said just a few minutes ago, that there has
21 not been any proof. That's all I'm saying.

22 MR. KELLY: I understand what you're saying. I
23 disagree with your theory.

24 MS. JAFOLLA: It's not correct that we only take
25 action on carcinogens that are proven to be a concern to

1 human health. We do regulate for carcinogens that are
2 probable carcinogens and even what we call possible
3 carcinogens, so what you're stating is incorrect.

4 CITIZEN: Is formaldehyde a carcinogen?

5 MS. JAFOLLA: It's a carcinogen. It's what we
6 call-- would lead to probable carcinogen. It has not been
7 proven yet to be carcinogenic. Again, there have been a
8 few studies that may suggest that.

9 CITIZEN: But is it true that there are 3,000 parts
10 per billion of formaldehyde in our blood? Isn't that a
11 fact?

12 MR. KELLY: I don't think so. I doubt it.

13 CITIZEN: According to Dr. Aimes who developed or
14 discovered the (not audible) he said that that's the case.

15 MS. JAFOLLA: Well, certainly that will be taken
16 into consideration in the toxicity factors.

17 CITIZEN: I believe I can answer this gentleman's
18 question.

19 MR. SCHROCK: Okay, I'll let you.

20 CITIZEN: For 39 of my 41 years at Dolan Jarvis, I
21 was a working around carbon tetrachloride,
22 perchloroethylene, and trichloroethylene. I even had
23 charge of recovery methods for those. We used them as a
24 degreaser for our-- to remove the oils that we used in
25 manufacturing die castings. We used them to degrease those

1 die castings, and then we would distill-- when it got dirty
2 we would distill the mix in order to recover what was still
3 good. And then we would have to dump that sludge into
4 55-gallon drums, and it would be hauled away.

5 Now, I know that Dolan Jarvis was cited at one
6 point in time and paid almost \$100,000 fine for some of
7 that having gotten into the Schuylkill River. Now, this is
8 a number of years ago.

9 Now, in order to answer his question, at the end of
10 those 39 years that I worked-- I worked 41 years-- at the
11 end of 39 years, OSHA came in and told us that it is a no,
12 no. There shall be no more carbon tetrachloride. There
13 shall be no more trichloroethylene. There shall be no more
14 perchloroethylene, because from here on you cleanse your
15 materials with soap and water or you send them to the
16 company you made them for, with the oil on them. So that
17 should answer your question.

18 CITIZEN: Okay, thank you.

19 MR. SCHROCK: I want to sort of intervene something
20 that I had said earlier if that's okay. You know, one of
21 the alternatives we have here is the No-Action Alternative,
22 and EPA firmly believes that there is a risk with a
23 No-Action Alternative at this site. But beyond the risk
24 data that you are looking for, Congress has directed the
25 Agency to abide by every other regulation that's out

1 there. And for this particular situation, those drinking
2 water standards are really what is going to dictate that
3 EPA must do an action at this site.

4 So as circumspect that you might think the data is
5 under this program, I have an obligation to do treatment,
6 because the State has standards and the Federal Government
7 has standards that says 5 parts per billion of
8 trichloroethylene is too much, and therefore, I've got to
9 take an action regardless of the suspect risks.

10 CITIZEN: Sir, it just seems ludicrous to me to go
11 through all of these stages and all these steps to every
12 letter of the law, and spend millions and millions of
13 dollars for the next three or four years, when you know
14 damn right well, as do all of us, that the only thing
15 that's going to solve the problem is a water line, and how
16 many years and how many millions or billions will be
17 wasted?

18 MR. SCHROCK: I'll be honest with you, you know,
19 EPA has 10 regions across the country. And the two that I
20 personally felt were the only alternatives were this
21 point-of-entry treatment and the water line, but I found
22 managers in every single region across the country that
23 have viewpoints similar to yours and opposite of yours. So
24 I don't think the Agency is making a flat statement that a
25 water line is always the best thing.

1 In this particular case-- again I'm looking at
2 maybe two or three years of treatment systems until we can
3 look at a final remedy, and again, water line will be one
4 of the alternatives we look at. It clearly has potential
5 that we're not going to ignore, but I'm just not going to
6 choose it at this time.

7 CITIZEN: In order to speed up the finding of the
8 source, wouldn't it be a good idea to offer a reward for
9 someone who knows where the site is, where this material
10 was dumped? You're spending millions upon millions of
11 dollars, certainly a few thousand shouldn't hurt.

12 MR. SCHROCK: Well, believe me, we've got all kinds
13 of people that have told us where things are, and those are
14 the places we're looking at right now. But before I start
15 digging in with a backhoe, I'd like to have some evidence
16 that, you know, I've got metals buried here. I've got some
17 soil gases that are coming off from that particular spot.
18 I think we're in that vicinity.

19 I'm not saying that there aren't other places that
20 maybe we ought to look at, but I think we're getting closer
21 in looking at-- at least the areas on top of that hill,
22 where we think there may have been something that happened.

23 CITIZEN: Well, the other risks of death or risks
24 to your health, one of them is, in particular, emphysema.
25 OSHA told us that, so if you will check with OSHA you could

1 probably find out.

2 MR. SCHROCK: Now, one other thing about this
3 particular site is that on top of that hill a large area is
4 actually bedrock at the surface. So as much as the stories
5 tell me that it was put here or put there, they didn't dig
6 into the rock. It's not there below the surface when
7 you've got rock all the way up to the top. But again we
8 are looking at the areas.

9 Again, a lot of our real source is looking at
10 historical photos-- like I say, going back into the 1950s.
11 Was there any digging done over here? Was there this? You
12 know, and I'm not talking just the top of the hill, I'm
13 talking the entire valley. We're trying to look at those
14 things. But again, with all the mine shafts, sinkholes, I
15 certainly will not claim that we have looked at every spot
16 that could possibly be found.

17 One other thing before I'll take one more
18 question-- not that I want to end it, it's just I wanted to
19 make sure that I at least went through the actual four
20 alternatives that are in the plan.

21 The Second Alternative we looked at was actually
22 delivering bulk water to the homes, instead of offering a
23 point-of-entry treatment system, and again, I don't think
24 this one is as reliable, particularly knowing some of the
25 winters that we've had the past. Just the whole idea of

1 having trucks come up every week or two weeks to deliver
2 water might get in to be a real problem.

3 So again, the four alternatives were the no-action,
4 the delivered bulk water, meaning a tank outside the homes,
5 the point-of-entry treatment, and the water line. The
6 Third Alternative is this point-of-entry treatment system,
7 and we're looking at offering it to those who have affected
8 wells and those who are potentially affected. So it has a
9 rather broad scope, and we do want to just continue to get
10 any comments we can to define exactly where we want to
11 approach this.

12 CITIZEN: Can this contaminant affect other
13 aspects of the environment other than water? For instance
14 the ground that you grow something in, livestock? Is it
15 something that's in the air?

16 MR. SCHROCK: I would say yes, but I don't have a
17 whole lot of experience. Nancy, do you have an answer?

18 MS. JAFOLLA: I'm not an ecologist, but if you're
19 talking about surface water-- maybe the cows would drink
20 that-- is that what your asking?

21 CITIZEN: Well, no. You're talking about water.
22 I'm thinking air, ground, the soil. Does it appear--

23 MS. JAFOLLA: Well, it's a contaminant of water so
24 the impact on any livestock-- it would be the same for
25 human health as well.

1 CITIZEN: Well, I'm thinking of growing in the
2 garden-- just breathing the air. You say it's volatile so
3 it goes up into the air.

4 MS. JAFOLLA: Yeah. The major concern is the
5 ground water, because that's where it poses a problem.
6 When you expose it, it's going to volatilize, and it will
7 be just gone. The concern would be mostly in the home when
8 you're showering or cooking or something like that. (not
9 audible) there's just water for the treatment system and
10 not just water-- bottled water.

11 MR. SCHROCK: Part of the full investigation will
12 included an ecological impact, so we will be looking at
13 things such as the plants and other ecological factors.

14 MS. JAFOLLA: I don't believe we address livestock.

15 MR. SCHROCK: I don't think we do livestock, but
16 there will be ecological--

17 MS. JAFOLLA: There will be ecological.

18 CITIZEN: If you are planning to do Alternative 3
19 now, in the long term will Alternative 5 for the
20 Feasibility Study be revisited?

21 MR. SCHROCK: That was the well field?

22 CITIZEN: Yeah, community system versus public
23 system.

24 MR. SCHROCK: Yeah, we'll certainly revisit that.
25 And again, the main reason it was screened out at this time

1 was because we don't know where we would put it or who
2 would operate it. So it's certainly still a possibility to
3 look at.

4 CITIZEN: I wonder if you could-- we talked about
5 a little bit of this earlier, if you could dispel some
6 rumors that are going around in some of the townships, in
7 that the EPA is being lobbied by the Washington Township
8 Sewer Authority to put in the water lines so that they can
9 lay sewer pipe at the same time at no cost to them, and
10 have you been lobbied for that? And, if so, what are your
11 intentions? And I guess that's it.

12 MR. SCHROCK: Okay. No one has been lobbying EPA
13 for any of these alternatives. I did, in fact, approach
14 Washington Township Municipal Authority, because I knew
15 that was one of the proposed alternatives that we were
16 looking at here, and I didn't want to go public unless one,
17 they were in fact really interested; two, if in fact they
18 had the capability. But as far as the sewer line, it was
19 very clear that's not part of my alternative. I would
20 never propose the sewer line.

21 Now, when you're looking at it from, you know,
22 common sense standpoint, if you're going to put in a water
23 line and if you're going to put in a sewer line, you ought
24 to do it at the same time. But we've never proposed that
25 we were going to do a sewer line, and we never were lobbied

1 by the Authority to do a water line or a sewer line. I
2 approached them just so there weren't any surprises, just
3 like I made sure both Townships had copies of these plans
4 so that we could be sure that there were no surprises for
5 public officials and those kind of agencies.

6 CITIZEN: Okay. I'm a supervisor in District
7 Township and part of this proposal, the loop, would be into
8 this Township. Now, if and when that time comes, which I
9 hear you say is about two to three years from now before
10 you would even consider that water line, would you have to
11 come to District Township to get permission, or would you
12 just automatically do it?

13 MR. SCHROCK: No. We have no automatic-- do
14 anything. EPA is willing to pay for this alternative, but
15 when you're in a situation we have here, three townships,
16 one Authority, the Borough, the Borough Authority, it's
17 very clear the way we've written it, that to even pursue
18 that type of option, requires a lot of coordination among a
19 number of governmental agencies.

20 But we are not in a position where we can say, you
21 have to let us through, particularly knowing that in
22 District Township we don't have any residential homes that
23 are contaminated there, but just the whole concept of going
24 with the Washington Township Authority and going into
25 Hereford Township, that's a political avenue that I cannot

1 force anybody to agree to, and that's one of the problems
2 that we've had with water lines across the entire state of
3 Pennsylvania.

4 We have so many townships, so many boroughs that,
5 you know, to get that kind of a project up and running and
6 to have somebody take it over, it's not an easy task.
7 We've had townships that have agreed to run the treatment
8 towers and then decided after it was built that, well, I
9 don't really need that water, so we're not going to run it
10 anymore. There's no guarantees. So no, we couldn't force
11 the Townships into any of these alternatives.

12 CITIZEN: What kind of impact does this have on
13 property values of all of us homeowners that are still
14 paying taxes on full property value, and now, we couldn't
15 even give them away.

16 MR. SCHROCK: You know, I'm not really in a
17 position to talk about property values or property taxes.
18 I think the Agency can be in a position to say that we have
19 provided a remedy which makes this home as good as any
20 other home that has their own well, and possibly even
21 better. So, you know, I think we can give any homeowner
22 that kind of assurance once we've got the treatment system
23 in, that this does, in fact, work-- provide you with the
24 data that shows the water is clean, and therefore, increase
25 your ability to sell.

1 CITIZEN: Would you buy my home knowing my husband
2 already had cancer?

3 MR. SCHROCK: I know I have-- in fact the first
4 time I heard about this Site was because I have a very
5 close friend who, in fact, was going to buy a home up
6 here. He chose another place, but yet, I think there are
7 many people who would buy homes up here. There are many
8 people who would like to get away from the congestion of
9 their homes, and you've got some nice properties up there.

10 CITIZEN: Why did they let us build them in the
11 last five, eight years when they already knew there was
12 problem there and they were letting us sink all these new
13 wells. I can't understand-- nobody, when they went to get
14 the permit to built these houses, why wasn't anybody
15 informed that we shouldn't be sinking any more wells
16 because we have water problems?

17 CITIZEN: And why are they still letting them do
18 it?

19 MR. SCHROCK: Well, my understanding-- and again I
20 don't run the Township or have any authority here-- from
21 those that I do know, they have been informed, but again,
22 I'm not the one in that position.

23 CITIZEN: In the last eight or ten years the real
24 estate has bottomed out in this area because the water
25 poses problems, and you can check that, you know, through

1 the real estate offices, and you will see that property
2 does not sell here, and when it does sell, it sells below
3 market level.

4 CITIZEN: I don't think that's true.

5 MR. SCHROCK: I know I get calls from people who
6 have asked me about buying property up in here, and I'm
7 very honest with them. If you've got a treatment system on
8 your home, your water quality will be fine.

9 I don't control the market. I mean, in my
10 neighborhood property is not selling for what I believe
11 it's worth either, and that's just within the last six to
12 nine months, but you know, real estate's a funny thing that
13 I can't control.

14 CITIZEN: Did I understand you correctly when you
15 said you approached the Washington Township Sewer
16 Authorities in Pottsville? When you-- would you mind
17 giving us their answer to you?

18 MR. SCHROCK: Yeah. They were interested, but
19 again, my reason was, I wasn't going to go out with a
20 public document and surprise them. I needed to know if, in
21 fact, that was still a possibility.

22 CITIZEN: I want to apologize for being late. I
23 don't know if this was covered or not, but I just heard
24 recently that all the water supply in the whole town of
25 Quakertown and all of the wells were polluted, and I use

1 the water for drinking. Now, if this water's polluted, how
2 much of this water could be still used to do your laundry,
3 washing your car, watering the lawn, and where-- actually a
4 smaller amount of the water is actually used for your
5 coffee, tea, and drinking.

6 Is there different types of contaminants in water
7 where water still could be used for other purposes in the
8 home and still have a small amount for the actual human
9 consumption, which is really the critical point. Because
10 the third quickest death in this country is cancer, and
11 it's directly related to-- the life expectancy is directly
12 related to the quality of your drinking water. So has that
13 been given consideration?

14 MR. SCHROCK: Our main concern here is with
15 protecting human health. There's no question about that.
16 I'm fully aware that there are people who use their springs
17 and have more than one well on their property that they use
18 for other purposes. I guess you'd have to almost look at
19 it on a case by case basis and see where the exposure might
20 be and where the effects might may show up.

21 CITIZEN: I mean that would be a small cost
22 compared to having all your water pristine, as to just have
23 your drinking water, and still acceptable for your other
24 needs.

25 MR. SCHROCK: When I looked at the quoted 29 homes

1 in the study, there were 29 that posed some sort of risk
2 base for people who drink the water, but the other
3 scenarios, in terms of taking showers and bathing, they do
4 have an impact. But again, you'd have to look at it on
5 almost a case-by-case basis to see where the exposure
6 pathway might be. We can talk a little more about it
7 afterwards, but I'd have to sort of narrow down the scope
8 of what we might be drinking.

9 CITIZEN: One question. Who has the actual power
10 to take these millions of dollars of the taxpayers' money
11 and do something? Who actually has the say and okay can go
12 and right these checks?

13 MR. SCHROCK: The EPA does.

14 CITIZEN: The EPA is the people, isn't it?

15 MR. SCHROCK: Yes, but we're also following the
16 laws that were passed by Congress for EPA to implement.
17 That's the real situation. There are many places where
18 because of the way the law was written, EPA must take an
19 action to prevent some kind of health risk, and this is one
20 of those cases.

21 CITIZEN: Have you checked any of the headwaters
22 up there?

23 MR. SCHROCK: Have we checked any of the headwaters
24 up here?

25 MR. KILMARTEN: We have done a round of the surface

1 water sediment sampling, and we have gone up river,
2 upstream, or upgradient of this area to get an idea of what
3 is the quality of the water before it ever reaches this
4 area, yes. And we'll be doing more of that type of
5 sampling this month actually.

6 CITIZEN: What kind of results do you get?

7 MR. KILMARTEN: They've just come in within the
8 past couple of weeks, and they're really still being
9 evaluated right now.

10 MR. SCHROCK: For those homeowners who had a spring
11 on their property, we're just now sending out the results
12 to those homeowners, and some of these springs are
13 contaminated. There's no doubt about it.

14 In terms of your other questions about the
15 headwaters, I think that was one of the reasons Bernice
16 wanted us to do those wells at further locations to see if
17 there might be an effect down the road that we don't see
18 just by checking the streams. So that is still part of
19 what we're trying to look at. If you have a specific
20 headwater location, maybe we can talk about it and try and
21 see if that's within our scope that we might do something
22 of that nature.

23 CITIZEN: I was wondering about the Forgedale
24 area, Forgedale.

25 MR. SCHROCK: I know we're doing streams samples in

1 Perkiomen, right?

2 MR. KILMARTEN: Yes, and its tributaries. And
3 also, you know, taking these tributaries that flow into the
4 creek, we trace them up the hill to the spring, you know,
5 where they actually are emanating from and sampling from
6 those points, as well. So by sampling, you know, where the
7 spring actually emanates and then sampling from discreet
8 places downstream from there, it allows us to determine
9 along that stretch what the various impacts might be.

10 MR. SCHROCK: Okay. We're still going to be
11 available here if there are individuals who want to ask our
12 individuals certain questions. But I think I'll let the
13 transcript stop and then we can-- you know, we'll still
14 remain around for people who want to ask certain more
15 things.

16 And again, thank you all for coming. If you have
17 any written comments please send them in. We will address
18 them in our final decision making.

19 (The hearing concluded at 8:41 p.m.)
20
21
22
23
24
25

C E R T I F I C A T E

I hereby certify that the proceedings and
evidence are contained fully and accurately in the notes
taken by me on the hearing of the foregoing cause, and that
this copy is a correct transcript of the same.

Merriann Hughes

Merriann Hughes, Reporter